数式テスト

$$ot \exists n orall x, y, z ((n,x,y,z \in \mathbb{N}) \wedge (x^n + y^n = z^n) \wedge (n \geq 3))$$

1. 自然演繹

$$\frac{A\Rightarrow B}{B}$$
 $\stackrel{A}{=}$ $(\Rightarrow E)$

$$\frac{A}{B \vee A} (\vee I) \frac{B}{B \vee A} (\vee I)$$

$$\underbrace{\begin{array}{ccc} A \vee B & \frac{[A]^1}{B \vee A} (\vee I) & \frac{[B]^1}{B \vee A} (\vee I) \\ & & \\ B \vee A & \end{array}}_{Q \vee A} (\vee E, 1)$$

$$\underbrace{ \frac{[A]^2}{A \vee B} (\vee I)}_{A \vee (B \vee C)} \underbrace{ \frac{[B]^1}{A \vee B} (\vee I)}_{(A \vee B) \vee C} (\vee V) \quad \underbrace{\frac{[B]^1}{A \vee B} (\vee I)}_{(A \vee B) \vee C} (\vee I) \quad \underbrace{\frac{[C]^1}{(A \vee B) \vee C} (\vee I)}_{(A \vee B) \vee C} (\vee E, 1)$$

$$\begin{array}{ccc}
\vdots & \vdots \\
\underline{A \vee B} & \frac{[A]^1}{B \vee A} (\vee I) & \frac{[B]^1}{B \vee A} (\vee I) \\
\underline{R \vee A} & (\vee E, 1)
\end{array}$$

$$egin{array}{c|ccc} X & P(X=i) \\ \hline 1 & 1/6 \\ 2 & 1/6 \\ 3 & 1/6 \\ 4 & 1/6 \\ 5 & 1/6 \\ 6 & 1/6 \\ \hline \end{array}$$

$$\underbrace{\frac{[A]^2}{A \vee B}(\vee I)}_{A \vee (B \vee C)} \underbrace{\frac{[A]^2}{A \vee B}(\vee I)}_{(A \vee B) \vee C}(\vee V) \underbrace{\frac{[B]^1}{(A \vee B) \vee C}(\vee I)}_{(A \vee B) \vee C}(\vee I) \underbrace{\frac{[C]^1}{(A \vee B) \vee C}(\vee I)}_{(A \vee B) \vee C}(\vee E, 1)}_{(VE, 2)}$$

$$\underbrace{\frac{[A]^2}{A \vee B}(\vee I)}_{A \vee (B \vee C)} \underbrace{\frac{[B]^1}{A \vee B}(\vee I)}_{(A \vee B) \vee C} \underbrace{\frac{[C]^1}{(A \vee B) \vee C}(\vee I)}_{(A \vee B) \vee C} \underbrace{\frac{[C]^1}{(A \vee B) \vee C}(\vee I)}_{(VE, 1)} \underbrace{(\vee E, 1)}_{(VE, 2)}$$

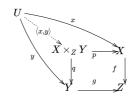
$$\frac{(A \rightarrow B)^1 \quad [A]^2}{B} (\rightarrow E) \frac{[A \rightarrow C]^1 \quad [A]^2}{B} (\rightarrow E) \frac{B \lor C}{B \lor C} (\lor I) \frac{B \lor C}{B \lor C} (\lor E, 1) }{A \rightarrow (B \land C)} (\rightarrow E, 1)$$

37. 自然演繹

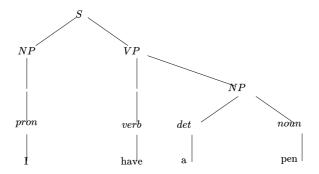
$$\vdash ((A \to B) \to A) \to A$$

$$\frac{[\neg A]^2 \quad [A]^1 \stackrel{(\neg E)}{=}}{\frac{\bot}{B}} (\bot)}{(A \to B) \to A]^3} \frac{\frac{[\neg A]^2 \quad [A]^1 \stackrel{(\neg E)}{=}}{B}}{A \to B} (\to I, 1)}{\frac{\bot}{A} \stackrel{(\neg E)}{=}}{(A \to B) \to A \to A}} (\to I, 1)$$

2. 可換図式



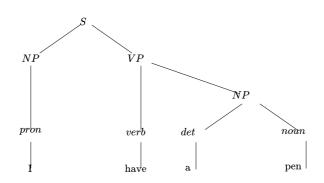
3. 構文木1



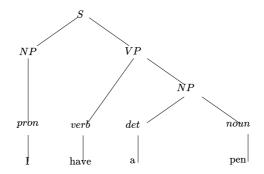
4. マスウェル方程式

$$\begin{split} & \nabla \cdot \mathbf{B} = 0 \\ & \nabla \times \mathbf{E} = -\frac{\partial B}{\partial t} \\ & \nabla \cdot \mathbf{D} = \rho \\ & \nabla \times \mathbf{H} = \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t} \end{split}$$

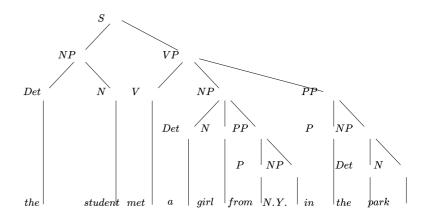
5. 構文木2



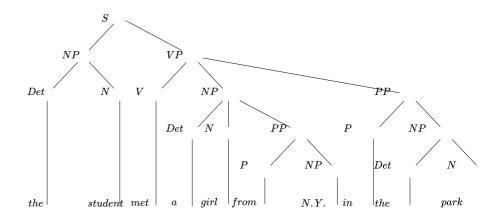
6. 構文木3



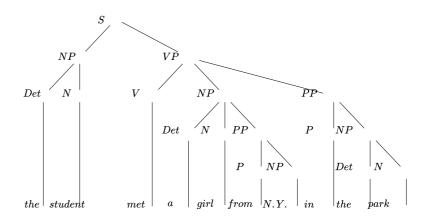
6.1. 長い文章



6.2. 長い文章



6.3. 長い文章



6.4. 長い文章

